



TOTAL SOLUTIONS FOR PROCESS AUTOMATION AND CONTROL
INDUSTRIAL AUTOMATION | VALVE AND REGULATOR
SPRAY NOZZLE | BLOWER AND ACCESSORIES



Product



Solution



Service

CALL NOW 02-911-4761-5

WWW.PVN.CO.TH



PRESSURE MEASUREMENT

PRESSURE GAUGE



DIFFERENTIAL PRESSURE

PRESSURE TRANSMITTER & SWITCH



MANOMETER & CHEMICAL SEAL

Pressure Gauge

Dial : 1-1/2", 2", 2-1/2", 3", 4", 4-1/2", 5", 6", 10", 96 x 96, 144 x 144 mm
 Pressure Ranges: 0 ... 2.5 mbar to -1 ... 0 ... 4000 bar
 Case: Stainless Steel, Polyamide, Brass
 Accuracy: EN Standard: Class 0.25, 0.6, 1.0, 1.6, 2.5. ASME Standard: Grade 1A, 2A, 3A, GOST

Differential Pressure Gauge

Dial : 2-1/2", 4", 4-1/2", 6"
 Pressure Ranges: 0 ... 0.25 in H₂O to 0 ... 600 bar
 Accuracy: ±1% of F.S. EN Standard: Class 1.6, 2.5.

Pressure Transmitter

Pressure Ranges: 0 ... 25 mbar to -1 ... 0 ... 2500 bar
 Accuracy: From ± 0.025 to ± 1% of F.S.
 Output Signals: 4 ... 20 mA, 0 ... 20 mA, 0 ... 10V, HART, RS485

Pressure Switch

Pressure Ranges: -1 ... 0 ... 1200 bar
 Accuracy: ± 0.5 to ± 2% of F.S.
 Contacts: Up to 3 setpoints. SPST, SPDT, DPDT, NPN, PNP

Manometer

Pressure Ranges: 0 ... 0.1 in H₂O to 0 ... 500 psi
 Accuracy: ± 0.05 to ± 1.5% of F.S.

Chemical Seal

Wetted Parts: Stainless Steel, Hastelloy, Monel, Tantalum, Duplex Steel, Inconel, Plastic
 Coating: PTFE, PTC, PFA, Gold, Halar

Accessories

Snubber, Siphon, Cooling Tower, Manifold Valves, Over range Protection, Flushing Ring, Clamp, Union and Nuts

FLOW MEASUREMENT

MAGNETIC & MASS FLOW



TURBINE, OVAL GEAR, PD METER, VORTEX & SWIRL



ULTRASONIC FLOW, SIGHT FLOW & FLOW SWITCH

Electromagnetic Flowmeter

Meter Size: DN6 to DN2200. Flange (DIN, ANSI, JIS), Tri-Clamp
 Material: Liner: PTFE, PFA, Hard Rubber. Electrode: SS, Hast, Titanium, Tantalum, Platinum-Iridium
 Accuracy: 0.2% to 0.5% of rate

Coriolis Mass Flowmeter

Meter Size: DN1.5 to DN200. Flange (DIN, ANSI, JIS). Tri-clamp, Thread.
 Accuracy: 0.10, 0.15, 0.20% of rate

Turbine Flowmeter

Meter Size: DN4 to DN200. Flange (DIN, ANSI, JIS). Tri-clamp.
 Accuracy: 0.5% of rate. ±1.0% of F.S.

Oval Gear Flowmeter

Meter Size: DN10 to DN200. Flange (DIN, ANSI, JIS)
 Accuracy: 0.2%, 0.5% of rate

Positive Displacement Flowmeter

Meter Size: DN10 to DN200. Thread, Flange (DIN, ANSI, JIS), Tri-clamp
 Accuracy: 0.2%, 0.5% of rate

Vortex/ Swirl Flowmeter

Meter Size: DN15 to DN300. Flange (DIN, ANSI, JIS), Wafer
 Accuracy: 1.0%, 1.5% of rate

Thermal Mass Flowmeter

Meter Size: DN6 ... DN200
 Accuracy: 1.0% of rate to 5% of rate

Variable Area Flowmeter

Meter Size: 1/16" to 6". Thread, Flange (DIN, ANSI, JIS), Tri-clamp.
 Accuracy: 1.0% to 5.0% of F.S.

Ultrasonic Flowmeter

Meter Size: DN15 to DN6000
 Accuracy: 1.0% of rate
 Communication: USB port serial, Modbus, RS232, RS485

AIR VELOCITY



Type: Averaging Pressure Sensor, Pitot Tube, Air Velocity Transmitter
 Duct Size: Up to 120".
 Accuracy: 2% to 5% of F.S.

HUMIDITY



Ranges: 0-100% R.H.
 Type: Wall, Duct, Outside air and Radiation Shield Mountings
 Accuracy: ± 0.1% to ± 5% of F.S.
 Outputs: 4...20 mA, 0 ... 5 V, 0 ... 10 V, Relay

LEVEL MEASUREMENT



Visual Level Indicator

Material: Stainless Steel, PVC, PP
 Pressure: -1 ... 630 bar
 Temperature: -40 to 400°C
 Accessories: Switches, Transmitters, Measuring Scale, Armaflex insulation and Heating tracing

Level Transmitter

Ultrasonic
 Ranges: Up to 60 meter
 Accuracy: 0.2% to 0.5% of rate

Radar

Ranges: Up to 80 meter
 Accuracy: ± 1 to ± 10 mm

Guided Wave Radar

Ranges: Up to 40 meter
 Accuracy: ± 2 to ± 10 mm

Level Switch

Type: Capacitive, Conductivity, Diaphragm, Displacer, Float, Microwave, Ultrasonic, Optical, Paddle, Tuning Fork, RF Admittance

Foam

Ranges: Up to 6 meters
 Accuracy: ± 1 mm

Bin Vibrator

Type: Bin Aerator Pad, Piston Vibrator, Air Hammer, Electric Bin Vibrator

TEMPERATURE MEASUREMENT



Temperature Gauge

Dial : 2-1/2", 3", 4", 5", 6", 10", 110 x 30, 150 x 36, 200 x 36 mm
 Temperature Ranges: -100 ... 650 °C
 Stem Connections: Rigid, Every angle, With Capillary Line
 Accuracy: Class 1

Thermocouple

Measuring Elements: J, K, T, E, R, S, B, N.
 Temperature Ranges: -200 ... 2000 °C
 Sheath Material: SS 304, SS 310, SS 316, SS 446, Inconel 600, Tantalum, Monel, Carbon Steel, Nickel, Ceramics and others

Resistance Temperature Detector

Types: Pt100, Pt1000
 Temperature Ranges: -200 ... 600°C
 Elements: 2-, 3-, 4-wire (Single & Duplex)

Temperature Switch

Pressure Ranges: -1 ... 0 ... 1200 bar
 Accuracy: ± 0.5 to $\pm 2\%$ of F.S.
 Contacts: Up to 3 setpoints. SPST, SPDT, DPDT, NPN, PNP

Thermowell

Materials: Stainless Steel, Duplex Steel, Monel, Hastelloy, Titanium, Tantalum and others
 Mountings: Thread, Flange, Weld, Hygienic and aseptic connections

GAS DETECTOR



Toxic Gas and Oxygen Detector

Types: Electrochemical, Infrared
 Protections: Intrinsically safe, Flameproof
 Housings: Aluminum, 316 Stainless Steel
 Outputs: 4 ... 20 mA, HART, LON, Profibus PA/ FF

Flammable Gas Detector

Types: Catalytic bead, Infrared, Open Path
 Protection: Flameproof
 Housings: ABS Plastic, Aluminum, 316 Stainless Steel
 Outputs: 4 ... 20 mA, mV, Relays, HART, Wireless

Flame Detection

Types: IR, UV & IR, IR3, Multi-IR, Color Imaging
 Detection Range: Up to 90 m
 Outputs: 0-20 mA, Relays, RS485, Modbus, HART 6

Controller

Input Channels: 1 to 16 channels
 Outputs: 4 ... 20 mA, Relays, Modbus, HART, Profibus DP, Ethernet

TEST EQUIPMENT

HVAC BALANCING



HVAC Balancing

Type: Air Flow Hood, Air Quality Test Instrument Parameters

Thermo-Hygrometer

Parameters: Humidity, Temperature, Wet bulb, Dew Point

Thermo-Anemometer

Parameters: Air Velocity, Air Volume, Temperature, Humidity

Vibration Transmitter/ Switch

Ranges: 10 to 1000 Hz; 0 to 50 mm/s

Precision Standard

Gauge Pressure: -1...0 ... 1 bar to 0... 5000 bar

Absolute Pressure: 0 ... 1 bar to 0 ... 1000 bar

Differential Pressure: ± 30 mbar to ± 300 mbar

Calibration Pump

Pressure Ranges: -0.95 bar ... 2500 bar

VIBRATION



PRESSURE TEST

AIR QUALITY

CARBON DIOXIDE TRANSMITTER



CARBON DIOXIDE TRANSMITTER

CO₂ Range : 0 to 10000 ppm

VOC Range : 0 to 2000 ppm

Humidity Ranges: 0 to 100%

Temperature Range : 0 to 50°C

INDOOR AIR QUALITY

Range : PM12.5: 0-500 $\mu\text{g}/\text{m}^3$; PM10: 0-600 $\mu\text{g}/\text{m}^3$

Duct Smoke Detector

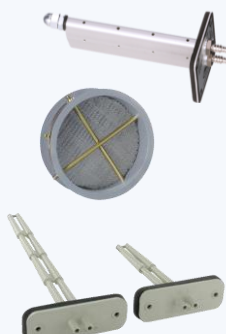
Air Velocity Range: 100 to 4000 FPM

Flow Sensor

Flow Range: 400 to 12000 FPM at $\pm 2\%$ to $\pm 3\%$

Material : Aluminum, ABS, Polycarbonate, Steel

FLOW SENSORS



DATA ACQUISITION

PROCESS CONTROLLER



TIMER CONTROLLER



HMI



INDICATOR



RECORDER



DATA LOGGER



Process Controller

Inputs: T/C, RTD, 0 ... 5/10 VDC, 0/4 ... 20 mA

Outputs: Relay, Pulse, 4...20 mA, 0 ... 10 V

Controls: On/off, PID, Fuzzy or manual

Timer Controller

Control Types: Timer or On-Demand

Channels: Up to 22 channels (Expandable)

HMI

Sizes: 4, 5, 7, 10, 12, 15, 21 inches

Functions: Integrated PLC, Integrated Motion Drives

Indicator

Inputs: Current or Voltage or Digital

Recorder

Type: Paper or Paperless

Data Logger

Parameters: Temperature, Pressure, RH, Dew point, Current, Voltage

Memory Sizes: Up to 8.5 Million readings

REGENERATIVE BLOWER

SIDE CHANNEL BLOWER



Pressure: Up to 750 mbar
Flow: Up to 2395 m³/h

Accessories: Filter, flexible hose

TANK CLEANER

TURBINE



MOTOR-DRIVEN



FLUID-DRIVEN



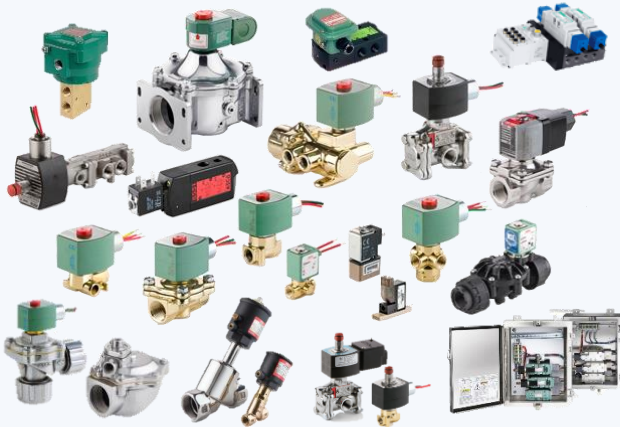
STATIONARY



Tank Diameters: Up to 30 meters
Pressure: 0.7 ... 300 bar

VALVE

SOLENOID VALVE – all purpose, piston, pilot valve, combustion valve, dust collector valve, explosion proof solenoid valve, inline valve



All Purpose Solenoid Valve

Applications: Air, Gas, Water, Liquid Hot water, Steam
Operators: 2-, 3-, 4- way

Piston Valve

Fluids: Water, Steam or Slurries
Sizes: 3/8" to 3"

Pilot Valve for Pneumatic Actuator

Operators: 3-, 4-, 5- way. Direct acting, Pilot operated, Pressure assisted

Combustion Valve

Operators: 2/2 Normally Closed and Normally Open, 3/2 Normally Closed
Sizes: 1/8" to 3"

Dust Collector Valve

Types: Integral, Remote
Sizes: 3/4" – 3"

Explosion Proof Solenoid Valve

Approvals: NEMA 7 & 9, Ex d, Ex e, Ex ia/ ib, Ex e mb, Ex m

Automatic Ball Valve

Bodies: 2-piece, 3-piece
Connections: NPT, Flange, Tri-clamp

Control Valve

Types: Hi-Flow Control Valve, Self-Acting Temperature
Sizes: 1/2" to 8"

I/P, E/P, P/I Transducer

Port Sizes: 1/4" to 1/2"
Inputs: 4-20 mA, 10-50 mA, 0/1-5 VDC, 1-9 VDC, 0/1-10VDC

Positioner

Types: Smart, Pneumatic, Electro-Pneumatic

Air Regulator

Port Sizes: 1/8" to 1/2"

Position Indicator/ Switch/ Transmitter

Applications: Rotary and Linear valve indication

Air Relay

Signal to output Ratio: 1:1, 1:2, 1:4, 1:6

Tank Protection

Types: Breather Valve, Pressure Vacuum Relief Valve, Flame Arrester

BALL VALVE



CONTROL VALVE

VALVE POSITION

POSITIONER

AIR REGULATOR



I/P, E/P, P/I TRANSducer

AIR RELAY

TANK PROTECTION



REGULATOR

BACK PRESSURE



GAS & TANK BLANKETING

HIGH PRESSURE

PRESSURE REDUCING



WATER

Sizes: 1/4" to 24"
Pressure: Up to 140 bar
Shutoff: Up to ANSI Class VI

CYLINDER & ACTUATOR

ROUND CYLINDER



NFPA CYLINDER

ISO Standard CYLINDER

RODLESS CYLINDER



DIAPHRAGM AIR CYLINDER

ROTARY ACTUATOR

BRAND PORTFOLIO





Product

AIR QUALITY
AIR VELOCITY
CYLINDER &
ACTUATOR
DATA
ACQUISITION
FLOW
GAS DETECTOR
HUMIDITY
LEVEL
PRESSURE
REGENERATIVE
BLOWER
REGULATOR
SPRAY NOZZLE
TANK CLEANER
TEMPERATURE
TEST EQUIPMENT
VALVE



Solution

ออกแบบ ติดตั้ง
ระบบเครื่องวัดและ
ควบคุม
ระบบล้าง เป่าแห้ง
และ ฆ่าเชื้อ
(Cleaning, Drying
and Disinfecting
System)
ระบบควบคุม
ความชื้น
ระบบตรวจจับแก๊สรั่ว
(Gas Detector
System)
ระบบเคลือบ
(Coating System)
ระบบควบคุมมลพิษ
ทางอากาศ (Air
Pollution System)
ระบบควบคุม
ความชื้น
(Humidification
System)



Service

บริการหลังการขาย
ด้วยทีมงานมืออาชีพ
ช่วยแนะนำการใช้
งานและให้คำปรึกษา
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วาล์ว
บริการตามข้อตกลง
ตามระยะเวลา
(Service
Agreement)



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